

**CRF Errors Corrected by the STIC Systems Branch**

Serial Number: 10/033,223

**ENTERED**

CRF Processing Date: 1/23/2002

Edited by: [Signature]

Verified by: [Signature] (STIC staff)

- ☐ Changed a file from non-ASCII to ASCII
- ☐ Changed the margins in cases where the sequence text was "wrapped" down to the next line.
- ☐ Edited a format error in the Current Application Data section, specifically: \_\_\_\_\_
- ☐ Edited the Current Application Data section with the actual current number. The number inputted by the applicant was ☐ the prior application data; or ☐ other \_\_\_\_\_
- ☐ Added the mandatory heading and subheadings for "Current Application Data".
- ☐ Edited the "Number of Sequences" field. The applicant spelled out a number instead of using an integer.
- ☐ Changed the spelling of a mandatory field (the headings or subheadings), specifically: \_\_\_\_\_
- ☐ Corrected the SEQ ID NO when obviously incorrect. The sequence numbers that were edited were: \_\_\_\_\_
- ☐ Inserted or corrected a nucleic number at the end of a nucleic line. SEQ ID NO's edited: \_\_\_\_\_
- ☐ Corrected subheading placement. All responses must be on the same line as each subheading. If the applicant placed a response below the subheading, this was moved to its appropriate place.
- ☐ Inserted colons after headings/subheadings. Headings edited included: \_\_\_\_\_
- ☐ Deleted extra, invalid, headings used by an applicant, specifically: \_\_\_\_\_
- ☐ Deleted: ☐ non-ASCII "garbage" at the beginning/end of files; ☐ secretary initials/filename at end of file; ☐ page numbers throughout text; ☐ other invalid text, such as \_\_\_\_\_
- ☐ Inserted mandatory headings, specifically: \_\_\_\_\_
- ☐ Corrected an obvious error in the response, specifically: \_\_\_\_\_
- ☐ Edited identifiers where upper case is used but lower case is required, or vice versa.
- ☐ Corrected an error in the Number of Sequences field, specifically: \_\_\_\_\_
- ☐ A "Hard Page Break" code was inserted by the applicant. All occurrences had to be deleted.
- ☐ Deleted **ending** stop codon in amino acid sequences and adjusted the "(A)Length:" field accordingly (error due to a PatentIn bug). Sequences corrected: \_\_\_\_\_
- ☒ Other: corrected C1507 and C1517 placement

\*Examiner: The above corrections must be communicated to the applicant in the first Office Action. DO NOT send a copy of this form.

3/1/95



OIPE

# 2.

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/033,223

DATE: 01/23/2002

TIME: 18:49:07

Input Set : A:\PTO.AMC.txt

Output Set: N:\CRF3\01232002\J033223.raw

3 <110> APPLICANT: Botstein, David  
4 Desnoyers, Luc  
5 Ferrara, Napoleone  
6 Fong, Sherman  
7 Gao, Wei-Qiang  
8 Goddard, Audrey  
9 Gurney, Austin L.  
10 Pan, James  
11 Roy, Margaret Ann  
12 Stewart, Timothy A.  
13 Tumas, Daniel  
14 Watanabe, Colin K.  
15 Wood, William I.  
17 <120> TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic  
18 Acids Encoding the Same  
20 <130> FILE REFERENCE: P2930R1C9  
C--> 22 <140> CURRENT APPLICATION NUMBER: US/10/033,223  
C--> 22 <141> CURRENT FILING DATE: 2001-12-27  
22 <150> PRIOR APPLICATION NUMBER: 60/095,325  
23 <151> PRIOR FILING DATE: 1998-08-04  
25 <150> PRIOR APPLICATION NUMBER: 60/112,851  
26 <151> PRIOR FILING DATE: 1998-12-16  
28 <150> PRIOR APPLICATION NUMBER: 60/113,145  
29 <151> PRIOR FILING DATE: 1998-12-16  
31 <150> PRIOR APPLICATION NUMBER: 60/113,511  
32 <151> PRIOR FILING DATE: 1998-12-22  
34 <150> PRIOR APPLICATION NUMBER: 60/115,558  
35 <151> PRIOR FILING DATE: 1999-01-12  
37 <150> PRIOR APPLICATION NUMBER: 60/115,565  
38 <151> PRIOR FILING DATE: 1999-01-12  
40 <150> PRIOR APPLICATION NUMBER: 60/115,733  
41 <151> PRIOR FILING DATE: 1999-01-12  
43 <150> PRIOR APPLICATION NUMBER: 60/119,341  
44 <151> PRIOR FILING DATE: 1999-02-09  
46 <150> PRIOR APPLICATION NUMBER: 60/119,537  
47 <151> PRIOR FILING DATE: 1999-02-10  
49 <150> PRIOR APPLICATION NUMBER: 60/119,965  
50 <151> PRIOR FILING DATE: 1999-02-12  
52 <150> PRIOR APPLICATION NUMBER: 60/162,506  
53 <151> PRIOR FILING DATE: 1999-10-29  
55 <150> PRIOR APPLICATION NUMBER: 60/170,262  
56 <151> PRIOR FILING DATE: 1999-12-09  
58 <150> PRIOR APPLICATION NUMBER: 60/187,202

## RAW SEQUENCE LISTING

DATE: 01/23/2002

PATENT APPLICATION: US/10/033,223

TIME: 18:49:07

Input Set : A:\PTO.AMC.txt

Output Set: N:\CRF3\01232002\J033223.raw

59 <151> PRIOR FILING DATE: 2000-03-03  
61 <150> PRIOR APPLICATION NUMBER: PCT/US99/12252  
62 <151> PRIOR FILING DATE: 1999-06-02  
64 <150> PRIOR APPLICATION NUMBER: PCT/US99/28634  
65 <151> PRIOR FILING DATE: 1999-12-01  
67 <150> PRIOR APPLICATION NUMBER: PCT/US99/28551  
68 <151> PRIOR FILING DATE: 1999-12-02  
70 <150> PRIOR APPLICATION NUMBER: PCT/US00/03565  
71 <151> PRIOR FILING DATE: 2000-02-11  
73 <150> PRIOR APPLICATION NUMBER: PCT/US00/04414  
74 <151> PRIOR FILING DATE: 2000-02-22  
76 <150> PRIOR APPLICATION NUMBER: PCT/US00/05841  
77 <151> PRIOR FILING DATE: 2000-03-02  
79 <150> PRIOR APPLICATION NUMBER: PCT/US00/08439  
80 <151> PRIOR FILING DATE: 2000-03-30  
82 <150> PRIOR APPLICATION NUMBER: PCT/US00/14941  
83 <151> PRIOR FILING DATE: 2000-05-30  
85 <150> PRIOR APPLICATION NUMBER: PCT/US00/15264  
86 <151> PRIOR FILING DATE: 2000-06-02  
88 <150> PRIOR APPLICATION NUMBER: PCT/US00/32678  
89 <151> PRIOR FILING DATE: 2000-12-01  
92 <150> PRIOR APPLICATION NUMBER: US 09/866,034  
93 <151> PRIOR FILING DATE: 2001-05-25  
95 <160> NUMBER OF SEQ ID NOS: 38  
97 <210> SEQ ID NO: 1  
98 <211> LENGTH: 1283  
99 <212> TYPE: DNA  
100 <213> ORGANISM: Homo sapiens  
102 <400> SEQUENCE: 1  
103 cggacgcgtg ggacccatac ttgctggtct gatccatgca caaggcgggg 50  
105 ctgctaggcc tctgtgccg ggcttggaat tcggtgcgga tggccagctc 100  
107 cgggatgacc cgccgggacc cgctcgcaaa taagggtggc ctggtaacg 150  
109 cctccaccga cgggatcggc ttcgccatcg cccggcggtt ggcccaggac 200  
111 ggggcccatg tggctgctcag cagccggaag cagcagaatg tggaccaggc 250  
113 ggtggccacg ctgcaggggg aggggctgag cgtgacgggc accgtgtgcc 300  
115 atgtggggaa ggcgaggac cgggagcggc tgggtggccac ggctgtgaag 350  
117 cttcatggag gtatcgatat cctagtctcc aatgctgctg tcaacccttt 400  
119 ctttggaaagc ataatggatg tcaactgagga ggtgtgggac aagactctgg 450  
121 acattaatgt gaaggcccca gccctgatga caaaggcagt ggtgccagaa 500  
123 atggagaaac gaggaggcgg ctcaagtgtg atcgtgtctt ccatagcagc 550  
125 cttcagtcca tctcctggtc tcagtcctta caatgtcagt aaaacagcct 600  
127 tgetgggcct gaccaagacc ctggccatag agctggcccc aaggaacatt 650  
129 aggttgaact gcctagcacc tggacttatc aagactagct tcagcaggat 700  
131 gctctggatg gacaaggaaa aagaggaaag catgaaagaa accctgcgga 750  
133 taagaagggt aggcgagcca gaggattgtg ctggcatcgt gtctttcctg 800  
135 tgctctgaag atgccagcta catcactggg gaaacagtgg tgggtgggtg 850  
137 aggaaccccg tcccgcctct gaggaccggg agacagccca caggccagag 900  
139 ttgggtctta gctcctggtg ctgttctctg attcaccac tggcctttcc 950  
141 caccctctgt caccctactg ttcacctcat caaatcagtt ctgccctgtg 1000

## RAW SEQUENCE LISTING

DATE: 01/23/2002

PATENT APPLICATION: US/10/033,223

TIME: 18:49:07

Input Set : A:\PTO.AMC.txt

Output Set: N:\CRF3\01232002\J033223.raw

```
143 aaaagatcca gccttcctcg ccgtcaaggt ggcgtcttac tcgggattcc 1050
145 tgctgttggt gtggccttgg gtaaaggcct cccctgagaa cacaggacag 1100
147 gcctgctgac aaggctgagt ctaccttggc aaagaccaag atattttttc 1150
149 ctgggccact ggtgaatctg aggggtgatg ggagagaagg aacctggagt 1200
151 ggaaggagca gagttgcaaa ttaacagctt gcaaataagg tgcaaataaa 1250
153 atgcagatga ttgcgcggct ttgaaaaaaa aaa 1283
155 <210> SEQ ID NO: 2
156 <211> LENGTH: 278
157 <212> TYPE: PRT
158 <213> ORGANISM: Homo sapiens
160 <400> SEQUENCE: 2
161 Met His Lys Ala Gly Leu Leu Gly Leu Cys Ala Arg Ala Trp Asn
162 1 5 10 15
164 Ser Val Arg Met Ala Ser Ser Gly Met Thr Arg Arg Asp Pro Leu
165 20 25 30
167 Ala Asn Lys Val Ala Leu Val Thr Ala Ser Thr Asp Gly Ile Gly
168 35 40 45
170 Phe Ala Ile Ala Arg Arg Leu Ala Gln Asp Gly Ala His Val Val
171 50 55 60
173 Val Ser Ser Arg Lys Gln Gln Asn Val Asp Gln Ala Val Ala Thr
174 65 70 75
176 Leu Gln Gly Glu Gly Leu Ser Val Thr Gly Thr Val Cys His Val
177 80 85 90
179 Gly Lys Ala Glu Asp Arg Glu Arg Leu Val Ala Thr Ala Val Lys
180 95 100 105
182 Leu His Gly Gly Ile Asp Ile Leu Val Ser Asn Ala Ala Val Asn
183 110 115 120
185 Pro Phe Phe Gly Ser Ile Met Asp Val Thr Glu Glu Val Trp Asp
186 125 130 135
188 Lys Thr Leu Asp Ile Asn Val Lys Ala Pro Ala Leu Met Thr Lys
189 140 145 150
191 Ala Val Val Pro Glu Met Glu Lys Arg Gly Gly Gly Ser Val Val
192 155 160 165
194 Ile Val Ser Ser Ile Ala Ala Phe Ser Pro Ser Pro Gly Phe Ser
195 170 175 180
197 Pro Tyr Asn Val Ser Lys Thr Ala Leu Leu Gly Leu Thr Lys Thr
198 185 190 195
200 Leu Ala Ile Glu Leu Ala Pro Arg Asn Ile Arg Val Asn Cys Leu
201 200 205 210
203 Ala Pro Gly Leu Ile Lys Thr Ser Phe Ser Arg Met Leu Trp Met
204 215 220 225
206 Asp Lys Glu Lys Glu Glu Ser Met Lys Glu Thr Leu Arg Ile Arg
207 230 235 240
209 Arg Leu Gly Glu Pro Glu Asp Cys Ala Gly Ile Val Ser Phe Leu
210 245 250 255
212 Cys Ser Glu Asp Ala Ser Tyr Ile Thr Gly Glu Thr Val Val Val
213 260 265 270
215 Gly Gly Gly Thr Pro Ser Arg Leu
216 275
```

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/033,223

DATE: 01/23/2002

TIME: 18:49:07

Input Set : A:\PTO.AMC.txt

Output Set: N:\CRF3\01232002\J033223.raw

218 <210> SEQ ID NO: 3  
219 <211> LENGTH: 21  
220 <212> TYPE: DNA  
221 <213> ORGANISM: Artificial Sequence  
223 <220> FEATURE:  
224 <223> OTHER INFORMATION: Synthetic Oligonucleotide Probe  
226 <400> SEQUENCE: 3  
227 gcataatgga tgctactgag g 21  
229 <210> SEQ ID NO: 4  
230 <211> LENGTH: 23  
231 <212> TYPE: DNA  
232 <213> ORGANISM: Artificial Sequence  
234 <220> FEATURE:  
235 <223> OTHER INFORMATION: Synthetic Oligonucleotide Probe  
237 <400> SEQUENCE: 4  
238 agaacaatcc tgctgaaagc tag 23  
240 <210> SEQ ID NO: 5  
241 <211> LENGTH: 46  
242 <212> TYPE: DNA  
243 <213> ORGANISM: Artificial Sequence  
245 <220> FEATURE:  
246 <223> OTHER INFORMATION: Synthetic Oligonucleotide Probe  
248 <400> SEQUENCE: 5  
249 gaaacgagga ggcggctcag tggatgacgt gtcttccata gcagcc 46  
251 <210> SEQ ID NO: 6  
252 <211> LENGTH: 3121  
253 <212> TYPE: DNA  
254 <213> ORGANISM: Homo sapiens  
256 <400> SEQUENCE: 6  
257 ggcgcctgag ctccgcctcc gggcccgata gcggcatcga gagcgccctcc 50  
259 gtcgaggacc aggcggcgca gggggccggc gggcgaaagg aggatgaggg 100  
261 ggcgcagcag ctgctgaccc tgcagaacca ggtggcgcgg ctggaggagg 150  
263 agaaccgaga ctttctggct gcgctggagg acgccatgga gcagtacaaa 200  
265 ctgcagagcg accggctgcg tgagcagcag gaggagatgg tggaaactgcg 250  
267 gctgcggtta gagctggtgc gccagggctg ggggggcctg cggctcctga 300  
269 atggcctgcc tcccgggtcc tttgtgcctc gacctcatac agccccctg 350  
271 ggggggtgcc acgcccattg gctgggcatg gtgccgcctg cctgcctccc 400  
273 tggagatgaa gttggctctg agcagagggg agagcagggtg acaaattggca 450  
275 gggaggctgg agctgagttg ctgactgagg tgaacaggct gggaagtggc 500  
277 tcttcagctg cttcagagga ggaagaggag gaggaggagc cgcccaggcg 550  
279 gaccttacac ctgcgcagaa ataggatcag caactgcagt cagagggcgg 600  
281 gggcacgccc agggagtctg ccagagagga agggcccaga gctttgcctt 650  
283 gaggagttag atgcagccat tccagggtcc agagcagttg gtgggagcaa 700  
285 ggcccagagt caggcccggc aggtccccc tgccacagcc tcagagtggc 750  
287 ggctggccca ggcccagcag aagatccggg agctggctat caacatccgc 800  
289 atgaaggagg agcttatttg cgagctggtc cgcacaggaa aggcagctca 850  
291 ggccctgaac cgccagcaca gccagcgtat ccgggagctg gagcaggagg 900  
293 cagagcaggt gcgggccgag ctgagtgaag gccagaggca gctgcgggag 950  
295 ctcgagggca aggagctcca ggatgctggc gagcgggtctc ggctccagga 1000

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/033,223

DATE: 01/23/2002

TIME: 18:49:07

Input Set : A:\PTO.AMC.txt

Output Set: N:\CRF3\01232002\J033223.raw

```
297 gttccgcagg agggctcgctg cggcccagag ccaggtgcag gtgctgaagg 1050
299 agaagaagca ggctacggag cggctggtgt cactgtcggc ccagagttag 1100
301 aagcgactgc aggagctcga gcggaacgtg cagctcatgc ggcagcagca 1150
303 gggacagctg cagagggcggc ttcgcgagga gacggagcag aagcggcgcc 1200
305 tggaggcaga aatgagcaag cggcagcacc gcgtcaagga gctggagctg 1250
307 aagcatgagc aacagcagaa gatcctgaag attaagacgg aagagatcgc 1300
309 ggccttccag aggaagaggc gcagtggcag caacggctct gtggtcagcc 1350
311 tggaacagca gcagaagatt gaggagcaga agaagtggct ggaccaggag 1400
313 atggagaagg tgctacagca gcggcgggcg ctggaggagc tgggggagga 1450
315 gctccacaag cgggaggcca tcctggccaa gaaggaggcc ctgatgcagg 1500
317 agaagacggg gctggagagc aagcgccctga gatccagcca ggccctcaac 1550
319 gaggacatcg tgcgagtgtc cagccggctg gagcacctgg agaaggagct 1600
321 gtccgagaag agcgggcagc tgcggcaggg cagcgcccag agccagcagc 1650
323 agatccgcgg ggagatcgac agcctgcgcc aggagaagga ctcgctgtct 1700
325 aagcagcgcc tggagatcga cggcaagctg aggcagggga gtctgtctgtc 1750
327 ccccgaggag gagcggacgc tgttccagtt ggatgaggcc atcgaggccc 1800
329 tggatgctgc cattgagtat aagaatgagg ccatcacatg ccgccagcgg 1850
331 gtgcttcggg cctcagcctc gttgctgtcc cagtgcgaga tgaacctcat 1900
333 ggccaagctc agctacctct catcctcaga gaccagagcc ctctctgtca 1950
335 agtattttga caaggtggtg acgctccgag aggagcagca ccagcagcag 2000
337 attgccttct cggaactgga gatgcagctg gaggagcagc agaggctggt 2050
339 gtactggctg gaggtggccc tggagcggca gcgcctggag atggaccgcc 2100
341 agctgacctt gcagcagaag gagcacgagc agaacatgca gctgctcctg 2150
343 cagcagagtc gagaccacct cggtgaaagg ttagcagaca gcaggaggca 2200
345 gtatgaggcc cggattcaag ctctggagaa ggaactgggc cgttacatgt 2250
347 ggataaacca ggaactgaaa cagaagctcg gcggtgtgaa cgctgtaggc 2300
349 cacagcaggg gtggggagaa gaggagcctg tgctcggagg gcagacaggc 2350
351 tcctggaaat gaagatgagc tccacctggc acccgagctt ctctggctgt 2400
353 cccccctcac tgagggggcc ccccgacccc gggaggagac gcgggacttg 2450
355 gtccacgctc cgttaccctt gacctggaaa cgctcgagcc tgtgtggtga 2500
357 ggagcagggg tcccccgagg aactgaggca gcgggaggcg gctgagcccc 2550
359 tgggtggggcg ggtgcttcct gtgggtgagg caggcctgcc ctggaacttt 2600
361 gggcctttgt ccaagccccg gcgggaactg cgacgagcca gcccggggat 2650
363 gattgatgtc cggaaaaacc cctgtaagc cctcggggca gacctgcct 2700
365 tggagggaga ctccgagcct gctgaaaggg gcagctgcct gttttgcttc 2750
367 tgtgaagggc agtccctacc gcacacctta aatccaggcc ctcatctgta 2800
369 cctcactgag gatcaacaaa tttgggccaat ggcccaaaag aactggacct 2850
371 tcatttaaca aaataatatg caaattccca ccacttactt ccatgaagct 2900
373 gtggtaccca attgccgcct tgtgtcttgc tcgaatctca ggacaattct 2950
375 ggtttcaggc gtaaattgat gtgctttag ttcagggggt tggccaagaa 3000
377 tcatcacgaa aggttcggtg gcaaccagg tgtggtttaa atggtcttat 3050
379 gtatataggg gaaactggga gacttttaga tcttaaaaaa ccatttaata 3100
381 aaaaaaaatc tttgaaggga c 3121
```

383 &lt;210&gt; SEQ ID NO: 7

384 &lt;211&gt; LENGTH: 830

385 &lt;212&gt; TYPE: PRT

386 &lt;213&gt; ORGANISM: Homo sapiens

388 &lt;400&gt; SEQUENCE: 7

389 Met Glu Gln Tyr Lys Leu Gln Ser Asp Arg Leu Arg Glu Gln Gln

VERIFICATION SUMMARY

PATENT APPLICATION: US/10/033,223

DATE: 01/23/2002

TIME: 18:49:08

Input Set : A:\PTO.AMC.txt

Output Set: N:\CRF3\01232002\J033223.raw

L:22 M:270 C: Current Application Number differs, Replaced Current Application No

L:22 M:271 C: Current Filing Date differs, Replaced Current Filing Date